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(54) METHOD FOR TRANSMITTING DATA FRAME

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(57) Abstract:

PROBLEM TO BE SOLVED: To transmit/receive data by grasping an error state of a transmission line during the transmission/reception of a frame before settling a transmission protocol and setting up data transmission frame length to an optimum value in accordance with the state of the transmission line.

SOLUTION: In the data frame transmission method for transmitting/receiving data by a frame between transmitters, parameters necessary for communication are negotiated before settling the transmission protocol to set up the frame length of a data transmission frame 500 to an optimum value. An exclusive negotiation frame 400 is used for the negotiation, the error state of the transmission line is grasped during the transmission/reception of the frame 400 and the frame length is determined based on the grasped result. One transmitter informs the opposite transmitter of the determined frame length and the frame length of the frame 500 is used as the informed frame length to execute transmission/reception of data to/from the opposite transmitter.

